

# Christina Song

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## PROFILE

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- Graduated from **UNSW in Earth Science (Geology)** with **First-Class Honours**, completing research in geochronology of volcanic deposits and granitic rocks, developing analytical and problem-solving skills.
- Conducted analysis in a groundwater project, successfully quantifying groundwater recharge thresholds. The research paper is currently in the process of **publication**.
- Gained hands-on **fieldwork** experience through relevant coursework in **structural geology** and participation in the Camp of **Applied Geophysics Excellence (CAGE)**, including seismic, electromagnetic, and resistivity surveys.
- Effective communicator with 3+ years of experience in customer service and hospitality while completing academic studies, demonstrating strong organisational skills by balancing work, study, and research responsibilities.
- Holds a valid driver's licence.

## EDUCATION

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### Bachelor of Advanced Science (First Class Honours in Geology)

Feb 2020 – Sept 2024

- Major: Earth Science (Geology)
- University of New South Wales (UNSW)

## RESEARCH EXPERIENCE

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### Honours Thesis

Sept 2023 – Sept 2024

**'A multi-geochronological approach to define the ages of crystallisation and alteration associated with mineralisation for the Rylstone Volcanics, Coomber Formation and spatially associated Botobolar Granite, Lue-Rylstone area, NSW, Australia'**

- Enhanced the understanding of the Mudgee-Kandos region's geological history by conducting multi-geochronology analysis to define the age of crystallisation and alteration in the Rylstone Volcanics, Coomber Formation and Botobolar Granites.
- Gained hands-on experience in U-Pb, Re-Os, Ar-Ar age-dating analysis and, EMPA and Sulphur Isotope analysis, processing and analysing large, complex datasets to derive key conclusions.
- Applied critical analysis to geochemical datasets, extracting valuable insights to inform geological interpretation.

### Special Research Project in Groundwater Recharge - Publication in Progress

Sept 2022 – Dec 2022

#### UNSW

- Conducted a groundwater research project (mini-honours) building upon Bian et al. 2019, to determine the relationship between groundwater recharge, fire regime and rainfall amounts.
- Performed site visits to assess equipment condition and understand the local geology, vegetation and environmental factors.
- Presented findings at the International Association of Hydrologists conference in Sydney (10 October 2023) to an audience of ~30 industry professionals.
- The research is currently under pre-print review in the **Hydrology and Earth System Sciences (HESS)** journal for publication and is open for public discussion.

## RELEVANT EXPERIENCE

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### Fieldwork and Professional Experience

Sept 2023 – Oct 2023

#### **Camp for Applied Geophysics Excellence (Perth)**

- Completed a 7-day intensive geophysics workshop, focusing on seismic processing, electromagnetics, and resistivity.
- Gained hands-on experience in geophysical surveying and data analysis, applying techniques to real-world scenarios.
- Collaborated with industry professionals and peers to solve geophysical challenges, strengthening teamwork and problem-solving skills.

## Industry collaboration with UNSW and Newcrest

Sept 2022 – Dec 2022

### UNSW

- Collaborated with peers on designing and formulating blueprint prototypes required by Newcrest, using AutoCAD to produce 3D models.
- Demonstrated strong time management by writing weekly reports and adapting feedback from the Newcrest Coordinator.
- Presented ideas and the final prototype to Newcrest, receiving positive feedback and acknowledgement of selected components for further consideration by the Newcrest professional team.

## Structural Geology – Field-Based Coursework

### Earth Structures

Feb 2022 – Apr 2022

- Developed field mapping techniques, measured and recorded structural features (e.g. folds, faults, bedding), and constructed geological maps and cross-sections.

### Field Methods and Mapping

Sept 2021 – Dec 2021

- Applied structural geology principles to interpret deformation histories, analysed stereonet, and conducted field mapping along the coastline of Bermagui, and produced a detailed geological map of the area.

## EXTRACURRICULAR EXPERIENCE

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### Secretary

Mar 2023 – Oct 2023

#### Geosoc UNSW (Geological Society)

- Coordinated with fellow club leaders to secure funds and plan an engaging industry night for students to interact and connect with professionals in the Earth Science field.

### Mentee

May 2022 – July 2022

#### Career Discovery Mentorship Program, UNSW

- Engaged in Career Development Learning, by connecting with a mentor from the Environmental Consulting Industry to strategise career development and awareness.

## SKILLS & LICENSES

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| • Driver's Licence | • DUG Insight | • IoGas     |
| • ArcGIS           | • RStudio     | • HighScore |

## WORK EXPERIENCE

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### Visitor Host Experience

Nov 2023 – May 2024

#### Australia Museum

- Provided high-quality customer service as the first point of contact, utilising strong problem-solving skills to address inquiries and deliver accurate, up-to-date information about essential information Australia Museum programs and updates.

### Research Assistant

Aug 2022 – Nov 2022

#### WB Clarke Geoscience Centre-Londonderry Core Library

- Conducted drill core handling using light spectroscopy equipment and performed quality control to prevent cross-contamination, ensuring accurate data acquisition.

## References

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References are available upon request.